From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Ruise 446: 52) and 72.2)

To:

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International application No.

PCT/JP2004/012650

IMPORTANT NOTIFICATION

International filing date (day/month/year)
01 September 2004 (01.09.2004)

Applicant

EISAI CO., LTD, et al

- 1. Transmittal of the translation to the applicant.
 - The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
- The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).
- 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Gulde for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Masashi Honda



Facsimile No.+41 22 740 14 35

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TRANSLATION PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

FP04-0275-00	FOR FURTHER	FOR FURTHER ACTION See Form PCT/IPEA/416							
nternational application No.	International filing d	ale (day/month/year)	Priority date (day/month/year)						
PCT/JP2004/012650	01.09.200		10.09.2003						
nternational Patent Classification (IPC)	or national elassification and	IPC							
C07D209/42									
Applicant									
EISAI CO., LTD.									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
This REPORT consists of a to			or this course cheet						
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	ant and to the International B description, claims and/or de		sheets, as follows: amended and are the basis for this report and/or						
	ning rectifications authorized		ale 70.16 and Section 607 of the Administrative						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the Interna	ational Bureau only) a total of	(indicate type and numb	er of electronic carrier(s))						
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related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
 This report contains indication 	s relating to the following ite	ms:							
Box No. I Basi	s of the report								
Box No. 11 Prior	ity								
Box No. III Non-	establishment of opinion wit	h regard to novelty. inven	tive step and industrial applicability						
Box No. IV Lack	of unity of invention								
	N/								
Box No. VI Cent	in documents cited								
Box No. VII Cent	in defects in the internationa	l application							
Box No. VIII Certe	un observations on the intern	ational application							
Date of submission of the demand		Date of completion of th	is report						
Name and mailing address of the IPEA/	P	Authorized officer							
acsimile No.		Telephone No.							

International application No.
PCT/JP2004/012650

Box	No. I	Basis of the report	
1.		egard to the language, this report is based on the internation ed under this item.	nal application in the language in which it was filed, unless otherwise
		This report is based on translations from the original langua, which is the language of a translation furnished for the purport international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)	
	L	international preliminary examination (Rule 55.2 and/	or 55.3)
2.	receivi.	ing Office in response to an invitation under Article 14 an port): he international application as originally filed/furnished	report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to
	ا لــا	he description:	
		pages	as originally filed/furnished
			received by this Authority on
	-	he claims:	
		nos.	as originally filed/furnished
		100.*	
	n	105.*	
	n		received by this Authority on
		he drawings:	
	5	heets	as originally filed/fornished
	s		received by this Authority on
	s	heets*	received by this Authority on
		sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
4.		This report has been established as if (some of) the amenda hey have been considered to go beyond the disclosure as file	ments annexed to this report and listed below had not been made, since ed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
4	If item	4 applies, some or all of those sheets may be marked "supe	rseded."

International application No. PCT/JP2004/012650

Box			rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-3	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-3	NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

1997

Document 1: WO 00/50395 Al (Eisai Co., Ltd.), 31 August 2000

Document 2: JP 9-316053 A (Eisai Co., Ltd.), 09 December

Document 3: Nippon Kagaku Gakkai ed., Jikken Kagaku Koza 2 Kiso Gijutsu II, 3rd ed., 2nd printing, 10 December 1967, Maruzen Kabushiki Kaisha pub., page 81

Document 4: WO 02/59092 Al (Maeck Patent GmbH), 01 August 2002

[1] The inventions set forth in claims 1 and 3 do not involve an inventive step in the light of documents 1 and 2, which are cited in the international search report, and document 3, which is newly cited.

Document 1 discloses a method for the production of the sulfonamide group-containing indole derivatives that are represented by formula (5a), wherein an aminoindole derivative that is represented by formula (3a) is reacted with a sulfonyl chloride derivative that is represented by the formula A-SO₂Cl in the presence of a base within a tetrahydrofuran solvent (refer to document 1, pages 25 to 32); however, the method in question is different from

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the methods that are set forth in claims 1 and 3, wherein the reaction solvent is a mixed solvent that comprises water and an alkyl acetate ester.

Meanwhile, document 2 discloses a method wherein an aminoindole derivative and a sulfonyl chloride derivative are reacted in the presence of water and an alkyl acetate ester (refer to column 9, line 23 to column 10, line 18), and thus it would have been easy for a person skilled in the art to conceive of attempting to modify the reaction method that is disclosed in document 1 so that the tetrahydrofuran solvent, which is a solvent that tends to generate peroxides (if necessary, refer to the section pertaining to ethers on page 81 of document 3), is substituted with a different solvent that is used in similar reactions.

In addition, it would also have been easy for a person skilled in the art to attempt to discover an optimal reaction solvent and to optimize the reaction conditions by means of experimentation, and the effects exhibited by the production methods that are set forth in claims 1 and 3 are considered to have been predictable.

[2] The invention set forth in claim 2 does not involve an inventive step in the light of documents 1 to 3 and newly cited document 4.

Refer to section [1], above.

Document 1 discloses a method for obtaining the aminoindole derivatives that are represented by formula (3a), wherein a nitroindole derivative that is represented by formula (1a) is reacted with a phosphorus oxyhalide within a dimethylformamide solvent, the product is isolated and then a hydroxylamine hydrochloride is

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

added to the product and reacted therewith in order to produce a cyanated compound that is represented by formula (2a), whereafter the cyanated compound that is represented by formula (2a) is subjected to a reduction reaction (refer to document 1, pages 7, 15 and 17); however, the method in question is different from the method that is set forth in claim 2, wherein the formylation reaction and the cyanation reaction are carried out in a one-pot process.

Meanwhile, document 4 discloses a feature wherein an indole derivative is reacted with a phosphorus oxyhalide within a dimethylformamide solvent, a hydroxylamine hydrochloride is added to the product and reacted therewith, and then the product is subjected to a cyanation reaction; therein, document 4 further indicates that said formylation reaction and said cyanation reaction can be carried out in a one-pot process (refer to pages 6 to 7 and 23 to 24). Consequently, it would have been easy for a person skilled in the art to attempt to employ the feature that is disclosed in document 4 in the reaction method that is disclosed in document 1 in order to simplify the steps thereof.

Furthermore, the effects exhibited by the production method that is set forth in claim 2 are considered to have been predictable.